AP-1000 AUTO POLISHER

User's Manual

Notification

Dear Users,
Thank you for your purchase of AP 1000 Auto Polisher. Please take time to read our user's manual carefully before use.
This guarantees you to make full use of this unit and prolongs the operation life of this unit.

Precautions

If you have detected abnormal heat, smoke, noise or smell, immediately stop using the product.
In the event of an abnormality, turn off the power and disconnect the power plug from the power socket. Continuing to use the product may result in electric shock or fire.

Observe the instructions given below regarding the power cable:

- Be sure to use the supplied or specified power cable.
- Do not modify, forcibly bend, kink or pull the power cable.
- When disconnecting the power cable from the AC outlet, be sure to hold the cable by the plug.
  Pulling the cable may cause wire breakage or shot circuit, resulting in fire or electric shock.
- Do not connect or disconnect the plug of the power cable to/from the AC outlet using wet hands.
  Doing so may result in electric shock.
- Do not touch the product with wet hands while the power cable is connected to the AC outlet.
  Doing so may result in electric shock.
- If the product will not be used for a long period, disconnect the power cable from the power source. Leaving the cable connected to the power socket for a prolonged period will consume electricity and may result in heating.

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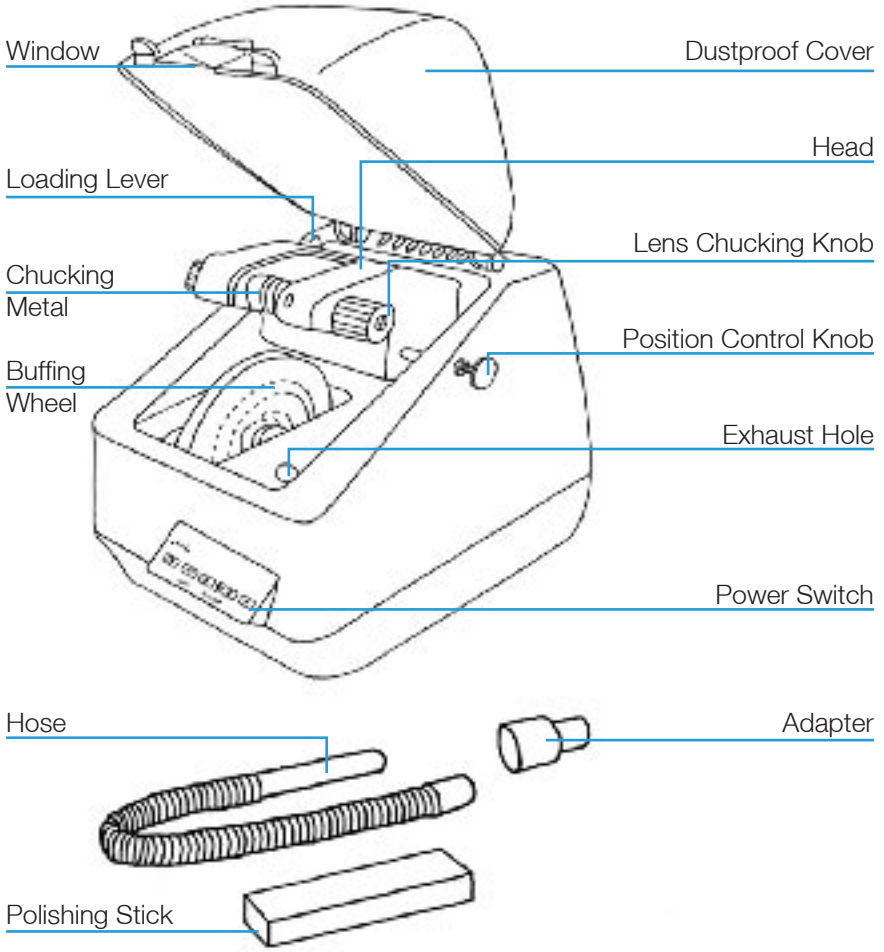
1. Name of Parts



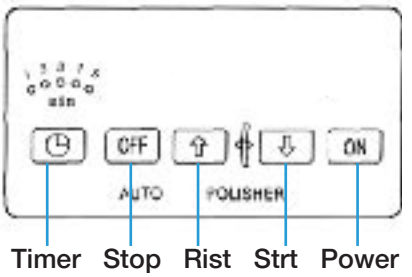


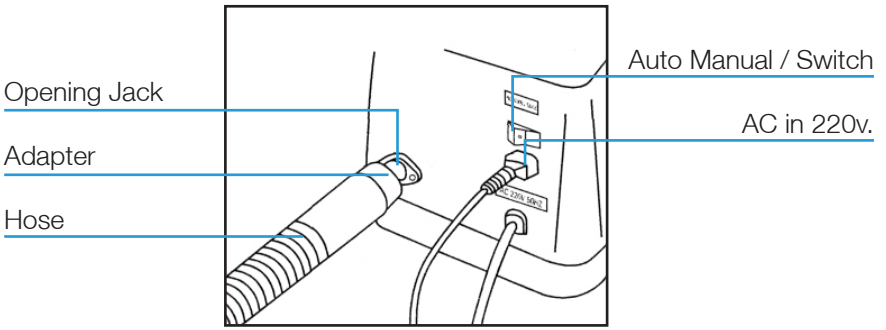
Fig. 1

2. Setting Up a Vacuum Cleaner

Use your own vacuum cleaner and make it work whenever the lens is polished, so that any dust of polish may not remain in the machine. Exchange the power plug of your vacuum cleaner with the accessory 3 —pin plug so that it may be connected to the “AC in 220V jack” located on the back of the machine and the vacuum cleaner may be tuned on and off automatically with the NH — 900’s power switch.
To connect the vacuum cleaner to the NH —900, follow the procedures below: Connect the cleaner’s plug to AC in 220V jack of the unit, and change over the AUTO/MANUAL SWITCH to AUTO.

Caution

Prepare a vacuum cleaner whose power consumption is less than 600W.
Attach the adapter to the hose of the vacuum cleaner and insert it in an opening in the back of the unit.
Use the vacuum cleaner at the weak power mode.
The exhaust hole doesn’t draw well when the cleaner is full with dust. Replace with a new dust bag.



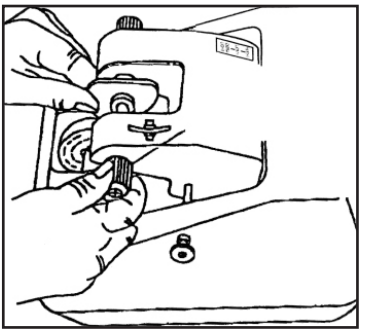
3. Operation

A) Setting a lens

Chuck center of a lens with the convex side facing the right. To prevent breakage of the lens, do not tighten lens chucking knob too much.

B) Setting the loading lever

Low: Select Low mode normally for all the CR - 39 lenses



Loading Lever
Lens Chucking Knob

High: Select High mode for the plástic Hi — index, mineral glass or thick CR - 39 lens.
Extra Light: Select Extra Light for all the polycarbonate or extremely thin CR- 39 lens.

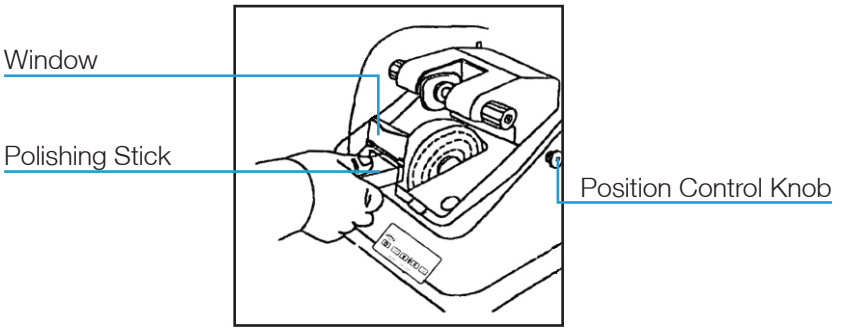
C) Putting polish

Close the dustproof cover, press the power switch button to turn the machine on. Then press the polish'g stick through the window against the rotating buffing wheel to put polish on it enough.

Note: If the polish is insufficient, the working time will be longer.

D) Setting the timer

Set the timer for working time according to the following standard CR-39 lens: graduations 2-3 Plastic Hi-index: 3-5 Polycarbonate: 1-2 (1 graduation is approx. 50 sec.)



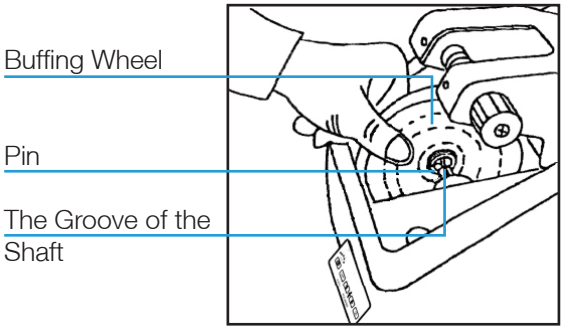
E) Polishing

Press the START / STOP SWITCH down to start the polishing proceeding.

The machine head comes down with the lens rotating on. Using the position control knob, you can slide the lens to an appropriate place against the buffing wheel at any time. Machine head is automatically resumed and stopped after finishing the polishing process.

4. Maintenance

Replacing the buffing wheel



Caution

Before you replace the buffing wheel, make sure to disconnect the machine plug from the wall outlet.

To remove the buffing wheel, pull it toward the left.
To attach the buffing wheel, insert it into the shaft properly with the pin of the wheel to be fitted into the groove of the shaft.

Repairing the buffing wheel

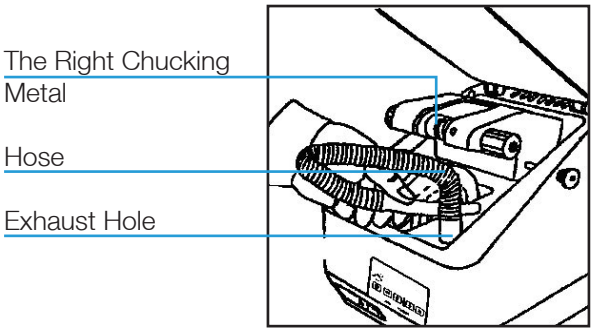
Cut off the hanging thread with scissors.

Cleaning

When the inside of the unit becomes dusty, clean it with the hose inserting into the exhaust hole and changing the AUTO/MANUAL SWITCH on the backside to MANUAL.

Washing the chuck rubber

To avoid scratching the coating of the lens, wash the chucking rubber sometimes and keep it clean.



Oiling

When the right chucking metal doesn't rotate easily, it needs oiling. Pull it toward the left and lubricate it with oil or grease. If the power plug is come off from the outlet while the work is still unfinished or machine head stopped owing to the power failure, wait until power is connected, push the power switch on and press the START/STOP SWITCH down, after that press the START/ STOP SWITCH up. Machine head will resume automatically.
On polishing the polycarbonated lenses.
When polishing the polycarbonated lenses note that:

a) Select the loading lever for Extra Light

b) Set the timer to 1 to 2

c) See the finished lens carefully, if it needs more polishing try it again.

5. Common Trouble Shooting

Shooting for "the head can't resume its original position automatically"

1. **Problem:**
   The main power is cut off by chance when you polish the lens, but the head can't resume its original position (i.e. The head is still in the low position) after restarting the machine.

   Solution:

   Please operate the machine according to following steps: press "ON" button, press "↓" button, press "↑" button. The head will resume its original position and

then you can operate the machine according to our User's Manual for normal use.

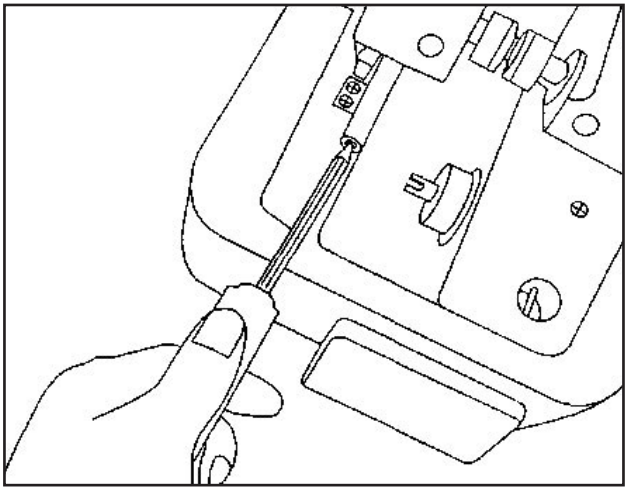
2. Problem:

You operate the machine on condition that the buffing wheel isn't fixed yet, or the buffing wheel is so worn that it must be replaced, or the buffing wheel is so soft that the head sinks down too much, you will find that the head can't resume its original position after finishing the polishing process.

Solution:

(1) Make sure the power is connected, then press "ON" button and then lift the black knob with care, the head will resume its original position.
(2) Generally, the allowance D must be 3-4 mm before operating the machine. If not, you must adjust the screw of damper and set D = 3-4 mm according to the drawings below.

Remark: the allowance D means the distance between the front upper side of the head and the edge of upper casing before operating the machine.



6. Specifications

Power sorces	10V 50, 60Hz/220V 50Hz
Power consumption	140W
Net weight	6.7 kgs
Size of buffing wheel	O.D. 115mm (max)
Thickness	10mm
Supplied accessories	
Polish	22 X 16 X 110mm (with case) Hose
Unit dimension	214 x 270 x 240mm
Timer	0-5 minutes

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9990 NW 14 Street | Suite 105 | Doral, FL 33172
Telephone: 888.334.4640